**Order of Operations**

**Decode the Maths Joke**

Calculate a value for each of the letters of the alphabet.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **A** | $$4+2×8$$ |  |  | **N** | $$8+3^{3}$$ |  |
| **B** | $$5×3+1$$ |  |  | **O** | $$10^{2}-2×7$$ |  |
| **C** | $$8+10÷2$$ |  |  | **P** | $$7+50÷5$$ |  |
| **D** | $$4×3^{2}-5$$ |  |  | **Q** | $$60-(7-3)^{2}$$ |  |
| **E** | $$10-2^{2}$$ |  |  | **R** | $$7-\sqrt{16}$$ |  |
| **F** | $$50-6×3$$ |  |  | **S** | $$6×\sqrt{9+16}$$ |  |
| **G** | $$7+2×4^{2}$$ |  |  | **T** | $$\sqrt[3]{125}-4×5$$ |  |
| **H** | $$10^{2}-5×3$$ |  |  | **U** | $$\sqrt[3]{65-1}×(3-7)$$ |  |
| **I** | $$(5+3)÷(-9+1)$$ |  |  | **V** | $$\sqrt{36}-2×3^{2}$$ |  |
| **J** | $$20-(2-5)^{2}$$ |  |  | **W** | $$32-20÷4$$ |  |
| **K** | $$8^{2}+16÷2$$ |  |  | **X** | $$(20-\sqrt[3]{125})^{2}$$ |  |
| **L** | $$(19+1)÷2^{2}$$ |  |  | **Y** | $$(8-5)^{3}-15÷3$$ |  |
| **M** | $$-3×2^{3}$$ |  |  | **Z** | $$80-\sqrt{144}÷6$$ |  |

Now decode the joke….

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 3 | 6 |  | -12 | 20 | -24 | 17 | -1 | 3 | 6 | 30 |  | 39 | 86 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86 | 31 |  | 20 | -15 |  | -24 | 20 | -15 | 85 | 30 | ? |  | 35 | 86 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -15 |  | -16 | 35 | 5 | 6 | 30 | 30 |  | 22 | 86 | -16 |  | 13 | 86 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -16 | 35 | -15 |  | 31 | 3 | 20 | 13 | -16 | 5 | 20 | ! |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |